

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 943	<b>FOR FURTHER ACTION</b> <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. PCT/IL2004/001095	International filing date (day/month/year) 30/11/2004	(Earliest) Priority Date (day/month/year) 30/11/2003
Applicant  YEDA RESEARCH AND DEVELOPMENT LTD.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b.  With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2.  **Certain claims were found unsearchable** (See Box II).

3.  **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 5

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b.  none of the figures is to be published with the abstract.

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## Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
  - a. type of material
    - a sequence listing
    - table(s) related to the sequence listing
  - b. format of material
    - in written format
    - in computer readable form
  - c. time of filing/furnishing
    - contained in the international application as filed
    - filed together with the international application in computer readable form
    - furnished subsequently to this Authority for the purpose of search
2.  In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

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**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 C07K16/40 A61P37/00 G01N33/50 A61K39/395 A61K31/7088

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, WPI Data, PAJ, Sequence Search, CHEM ABS Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/087380 A (YEDA RESEARCH AND DEVELOPMENT CO.LTD; WALLACH, DAVID; RAMAKRISHNAN, PA) 23 October 2003 (2003-10-23) claims 43-49 -----	44,59
X	CHRISTMAN J W ET AL: "Nuclear factor kappa B: a pivotal role in the systemic inflammatory response syndrome and new target for therapy." INTENSIVE CARE MEDICINE. NOV 1998, vol. 24, no. 11, November 1998 (1998-11), pages 1131-1138, XP002349293 ISSN: 0342-4642 page 1134, right-hand column, last paragraph -----	11-16, 18-20, 39-43,59
Y	----- -/-	17,35

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- A\* document defining the general state of the art which is not considered to be of particular relevance
- E\* earlier document but published on or after the international filing date
- L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- O\* document referring to an oral disclosure, use, exhibition or other means
- P\* document published prior to the international filing date but later than the priority date claimed

- T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- &\* document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
14 October 2005	02/11/2005
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Authorized officer  Ulbrecht, M

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	LIN X ET AL: "MOLECULAR DETERMINANTS OF NF-KAPPAB-INDUCING KINASE ACTION" MOLECULAR AND CELLULAR BIOLOGY, AMERICAN SOCIETY FOR MICROBIOLOGY, WASHINGTON, US, vol. 18, no. 10, October 1998 (1998-10), pages 5899-5907, XP002920401 ISSN: 0270-7306 abstract	17,35
A	WO 97/37016 A (YEDA RESEARCH AND DEVELOPMENT CO. LTD; WALLACH, DAVID; MALININ, NIKOLA) 9 October 1997 (1997-10-09) page 16, line 21 - line 27 claim 48 page 34, line 29 - page 36, line 36	48-58
A	WO 98/54323 A (DANA-FARBER CANCER INSTITUTE) 3 December 1998 (1998-12-03) the whole document	45,46
A	US 5 843 721 A (ROTHE ET AL) 1 December 1998 (1998-12-01) the whole document	1-59
A	XIAO GUTIAN ET AL: "NF-kappaB-inducing kinase regulates the processing of NF-kappaB2 p100" MOLECULAR CELL, vol. 7, no. 2, February 2001 (2001-02), pages 401-409, XP002349294 ISSN: 1097-2765 page 402, right-hand column, last paragraph - page 403, left-hand column, last paragraph figure 2d	1-59
A	YIN L ET AL: "Defective lymphotoxin-beta receptor-induced NF-kappaB transcriptional activity in NIK-deficient mice." SCIENCE. 16 MAR 2001, vol. 291, no. 5511, 16 March 2001 (2001-03-16), pages 2162-2165, XP002349295 ISSN: 0036-8075 cited in the application the whole document	1-59

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### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: 21-38 because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 21-38 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/IL2004/001095

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 03087380	A	23-10-2003	AU AU CA CA EP EP WO JP	2003222415 A1 2003226607 A1 2482387 A1 2482718 A1 1499724 A1 1499729 A1 03087374 A1 2005525113 T		27-10-2003 27-10-2003 23-10-2003 23-10-2003 26-01-2005 26-01-2005 23-10-2003 25-08-2005
WO 9737016	A	09-10-1997	AU AU BG BR CA CN CZ EA EE EP HK HU JP NO NZ PL SK	732793 B2 2175597 A 102817 A 9708518 A 2250085 A1 1221449 A 9803183 A3 4309 B1 9800322 A 0894130 A1 1018910 A1 9902429 A2 2000507826 T 984551 A 331902 A 329218 A1 136198 A3		03-05-2001 22-10-1997 31-05-1999 03-08-1999 09-10-1997 30-06-1999 12-05-1999 26-02-2004 15-04-1999 03-02-1999 05-08-2005 28-10-1999 27-06-2000 24-11-1998 28-02-2000 15-03-1999 07-05-1999
WO 9854323	A	03-12-1998	US	6010853 A		04-01-2000
US 5843721	A	01-12-1998	AU AU CA EP JP US US WO	724178 B2 8382098 A 2295999 A1 1012174 A1 2001510348 T 5844073 A 5854003 A 9901471 A1		14-09-2000 25-01-1999 14-01-1999 28-06-2000 31-07-2001 01-12-1998 29-12-1998 14-01-1999